

TABLE I. DEVICE PARAMETERS 1/

JPL PART # ST12149-	MFG.	MFG PART #	PACKAGE STYLE	DETAIL SCREENING TESTS	ELECTRICAL CHARACTERISTICS & GROUP A TESTS	RADIATION (TID) LEVEL RAD(Si)
QN4856TR QN4857TR QN4858TR	SIX/MOT	2N4856 2N4857 2N4858	TO-18 2/	MIL-S- 19500/385	MIL-S-19500/385 (TABLE I)	100k 3/

**NOTES:**

**1/ This drawing, in conjunction with CS515581, imposes all requirements for procurement of these devices.**

**2/ Device physical dimensions shall conform to MIL-S-19500/385, Figure 1.**

**3/ Sufficient radiation tolerance to this TID level is guaranteed by design for this device.  
(See CS515581, Paragraph 4.7.7).**

**4. This standard takes precedence over documents referenced herein.**

<b>RELEASED THRU SECTION 356 DATA MANAGEMENT:</b>			<b>DATE:</b>		
<b>REVISION: C</b>			<b>APPROVED BY:</b>		
<b>DATE:</b>			<b>DATE:</b>		
<b>APPROVED SOURCE(S)</b>					<small>THE ITEM LISTED IN THE APPROVED SOURCE BLOCK AND IDENTIFIED BY VENDOR NAME, ADDRESS, AND PART NUMBER WILL BE EVALUATED AND TESTED BY THE JPL ELECTRONIC PARTS RELIABILITY SECTION OR ITS DELEGATED ALTERNATE BEFORE BEING APPROVED FOR USE. NON-JPL USERS SHALL CHECK WITH THE ELECTRONIC PARTS RELIABILITY SECTION ON THE STATUS OF THE PART'S APPROVAL BEFORE USING.</small>
<b>VENDOR PART NO</b>	<b>VENDOR</b>		<b>JPL PART NO</b>		
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<b>JET PROPULSION LABORATORY    CALIFORNIA INSTITUTE OF TECHNOLOGY</b>					<b>CAGE NO 23835</b>
<b>Procurement specification:</b> <b>CS515581</b> <b>Screening specification:</b> <b>ZPP-2073-GEN</b>	<b>TITLE:</b>  <b>TRANSISTOR, SILICON, JFET N-CHANNEL</b>				<b>DETAIL SPECIFICATION</b>
<b>Custodian: Electronic Parts Reliability Section 514</b>					<b>ST 12149</b>
					<b>SHEET 1 OF 1</b>

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